

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method for utilizing shared resources in a computerized system at a command level, with the aid of a processor for processing a plurality of commands ~~to be executed and executing thereof~~ using two or more of said shared resources, wherein at least one command of said plurality of commands comprises two or more sub-commands to be executed at different ones of said two or more shared resources for executing said at least one command, the method comprising steps of :

deriving, from each of said plurality of commands, subcommands respectively related to said shared resources, assigning priorities to said subcommands, forwarding said subcommands to one or more queues of the respective two or more shared resources, so that each of said queues comprises the subcommands related to a particular shared resource,

~~thereby ensuring execution~~ executing [of] the subcommands from said queues by said shared resources in an asynchronous manner, and according to said subcommand priorities by each of the shared resources. thereby allowing

to start execution of subcommands belonging to one command
while subcommands of the other command are not yet all
executed, thus increasing efficiency of processing.

2. (Original) The method according to Claim 1, further comprising a step of assigning different command priorities to said commands, wherein the command priorities set an order of their urgency.

3. (Original) The method according to Claim 2, wherein the step of assigning priorities to said subcommands comprises assigning to them the priority equal to that of the command from which the subcommands are derived.

4. (Previously Presented) The method according to Claim 1, wherein the step of assigning priorities to said subcommands comprises defining one group of the subcommands as critical subcommands for execution of their respective commands, and another group of the subcommands as non-critical commands for execution of their respective commands, wherein priorities of the critical subcommands are higher than priorities of the non-critical subcommands.

5. (Currently Amended) The method according to Claim 4, wherein the step of assigning priorities to the subcommands

comprises assigning to each subcommand a combined priority; the combined priority being determined based on the subcommand's priority in the command and the priority of said command, so that the higher is priority of the command, the more priority of any of its sub-commands is raised.

6. (Previously Presented) The method according to Claim 1, further comprising steps of:

in each of the shared resources, upon executing the subcommands from the subcommand queue according to the subcommand priorities, obtaining respective responses of successful completion and outputting thereof into a response queue of the shared resource;

forwarding each of the responses from the response queues to the command from which the corresponding subcommand was derived, for further creating reports of successful completion relating to said commands.

7. (Currently amended) The method according to Claim 6, further comprising a step of issuing a preliminary partial report with respect to a particular command before completing its execution, but upon receiving, with respect to said particular command, of one or more said responses of successful completion concerning the respective subcommands

having high priority, in order to initiate urgent execution of another command of said plurality.

8. (Currently amended) A control system for utilizing shared resources at a command level, the control system comprising one or more command processors for processing a plurality of commands, each of said command processors being capable of cooperating with ~~one~~ two or more said shared resources;

each of said command processors being operative to:

derive, from a command of said plurality of commands, two or more [[,]] subcommands to be respectively executed at said two or more shared resources, assign priorities to said subcommands, forward said subcommands to the respective two or more shared resources for execution wherein subcommands of other commands being also forwarded to said two or more shared resources for execution; [[,]]

receive from said shared resources responses of successful completion concerning the respective subcommands, and

based on the responses to concerning said subcommands, form reports of successful completion concerning the respective commands, wherein

said two or more shared resources being capable of executing the subcommands of different commands in an asynchronous manner, according to priorities of subcommands, thereby allowing to start execution of subcommands belonging to one command while subcommands of the other command are not yet all executed, thus increasing efficiency of processing.

9. (Currently amended) The control system according to Claim 8, further comprising a master higher level processor capable of cooperating with said command processors being slave considered lower level processors;

said master higher level processor being operative to distribute the commands between said command processors, and receive from said command processors reports of successful completion concerning the respective commands.

10. (Currently Amended) The control system according to Claim 9, wherein the master higher level processor is operative to sort the commands by priorities between said command processors.

11. (Previously Presented) The control system according to Claim 8, wherein each of said command processors is capable of dividing said subcommands into a group of

critical subcommands being critical for execution of their respective commands, and a group of non-critical subcommands being non-critical for execution of their respective commands, wherein priorities of the critical subcommands are higher than priorities of the non-critical subcommands.

12. (Currently amended) The control system according to Claim 11, wherein at least one of said command processors is capable of issuing a partial preliminary report with respect to a particular command of said plurality, before the particular command is completely executed, the partial preliminary report is based on one or more said responses of successful completion concerning to the critical subcommands of a the particular command.

13. (Currently amended) The control system according to Claim 8, additionally comprising
two or more input memory buffers respectively associated with said one two or more of the shared resources, for gathering and queuing said subcommands of different commands to be input to the shared resource, and
two or more output memory buffers for queuing responses when outputted from the respective shared resources.

14. (Original) The control system according to Claim 13, wherein said input memory buffers are capable of sorting the subcommands in the queue so that the first subcommand to be read from the queue is always that having the highest priority in the queue.

15. (Original) The control system according to Claim 8, being a system for controlling a telecommunication network.

16. (Original) A computerized system with shared resources, comprising the control system according to Claim 8.